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Yosemite Valley Sanitary Sewer System Capital Improvement Plan

Volume 1

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Prepared for

National Park Service Yosemite National Park

5083 Foresta Road El Portal, CA 95318

K/J Project No. 022508.00

Table 5.2: **Rehabilitation Recommendations**

	Project Number			Reha	bilitat	ion C	ode ^(a)	ì		CIP Priority Level	Project Description
Rating		RP	NM	RR	IP	SR	RT	GM	М		
4	1.0		X							Emergency	Short Term Alteration to Address Capacity Limitations on N Line, Replace Existing Manhole Frames and Covers with New Sealed Manhole Frames and Covers, 5 Location (Manholes N7, N8, N22, N23 & N24)
4	2.0	×	×							Emergency	F Line Capacity Increase: Additional Flow Monitoring / Dye Testing to Verify Service Locations and Model Results for Curry Village Portion of the Collection System. If Study Warrants, Dig and Replace from F15 to F18 with 12"ID Pipe, Replace 5 Manholes
4	3.0	x	X	X	x	х				Emergency	Rehabilitate MH12 to MH23, Pipe Burst MH12 to MH24 with 8"ID Pipe, Root Removal and Line 1 Segment, Spot Repair 1 Segment, 2 New Manholes
4	4.0					×				Emergency	Rehabilitate C2 to C4. Two Spot Repairs
4	5.0	Х	×	×	Х	×	X	×	×	Emergency	Rehabilitate West Yosemite Village, Replace 4 Segments, Root Removal and Line 6 Segments, Replace 1 Tap. 12 Spot Repairs, Replace 4 Manhole, Grease Management 1 Segment, 4 Clean and Re-inspect Segments
4	6.0			Х	Х	×		×	X	Emergency	Rehabilitate J & K Sewer Lines, Root Removal and Line 1 Segment, 5 Spot Repairs, Grease Management 3 Segments, Clean and Re-Inspect 5 Segments
4	7.0			×	×	x			х	Emergency	Rehabilitate G Line, Root Removal and Line 3 Segments, 9 Spot Repairs, Clean and Re-inspect 4 Segments
4	8.0					Х		X	х	Emergency	Ahwahnee N Line Rehabilitation: Hotel Kitchen Line - Grease Management 2 Segments, N22 to N23 Rock Removal - 1 Spot Repair, Clean and Re-inspection 1 Segment
4	9.0	x	X	3		X				Emergency	Rehabilitate Housekeeping Camp, Replace 1 Segment, 1 Spot Repair, Replace 1 Manholes

RP = Replace Pipe

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SR = Spot Repair

M = Aggressive Cleaning & Re-inspection by CCTV

RR = Root Removal

Table 5.2: Rehabilitation Recommendations (cont.)

				Reha	bilitat	ion C	ode ^(a)				
Rating	Project Number	RP	NM	RR	IP	SR	RT	GM	М	CIP Priority Level	Project Description
4	10.0			х	Х	X	Х			Emergency	Rehabilitate Curry Village Huff House, Root Removal and Line 1 Segment, 2 Spot Repairs, Replace 5 Taps
4	11.0					X				Emergency	North Pines Lift Station, Investigate Reason for Blockage and Repair as Necessary, 1 Spot Repair
4	12.0				Х	×		×	Х	Emergency	Rehabilitate North Pines at Stables, 2 Spot Repairs, Line 1 Segment, Grease Management 1 Segment, Clean and Re-inspect 3 Segments
4	13.0	×	X		X	×				Emergency	Rehabilitate Upper & Lower Pines / Happy Isles Line, Replace 1 Segment, Line 1 Segment, 3 Spot Repairs, 1 New Manhole
3	14.0	x	Х							Immediate	F Line Capacity Increase: Pipe Burst from N16 to F5 with 15"ID Pipe; Replace 3 Manholes
3	15.0	Х	Х							Immediate	F Line Capacity Increase: Pipe Burst from F5 to F11 with 12"ID Pipe, Re-Design / Replace Siphon F11 to F13 with 12"ID Pipe, 5 New Manholes
3	16.0	Х	Х							Immediate	F Line Capacity Increase: Dig and Replace from F13 to F15 with 12"ID Pipe, Replace 2 Manholes
3	17.0	×	X							Immediate	F Line Capacity Increase: Dig and Replace from F18 to F20 with 8"ID Pipe, Replace 2 Manholes
3	18.0	×	X				Х			Immediate	Replace Tecoya Housing Line to Allow Cleaning and Maintenance, Pipe Burst from N15 to End Tecoya Housing with 8"ID and 6"ID Pipe, 3 New Manholes, Replace 15 Taps

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				Reha	bilitat	tion C	ode ^(a)	E.			
Rating	Project Number	RP	NM	RR	IP	SR	RT	GM	М	CIP Priority Level	Project Description
3	19.0	X	Х							Immediate	N Line Capacity Increase: Pipe Burst from N13 to N16 with 18"ID Pipe, Replace 2 Manholes
3	20.0	Х	X							Immediate	N Line Capacity Increase: Pipe Burst from N16 to N17 with 15"ID Pipe, Replace 1 Manhole
4	21.0	Х	X							Immediate	N Line Capacity Increase: Pipe Burst from N19 to N22 with 15"ID Pipe, Replace 1 Manhole
4	22.0	×	X							Immediate	N Line Capacity increase: Pipe Burst from N22 to N24 with 12"ID Pipe, Replace 1 Manhole
4	23.0	X	X							Immediate	N Line Capacity Increase: Pipe Burst from MH31 to N2 with 21"ID Pipe, Replace 2 Manholes
4	24.0	X	X							Immediate	N Line Capacity Increase: Pipe Burst from N2 to N13 with 18"ID Pipe, Replace 6 Manholes
3	25.0	×	X							Immediate	N Line Capacity Increase: Pipe Burst from N24 to N27 with 10"ID Pipe, Replace 2 Manholes
3	26.0	X	X		Х	×			Х	Immediate	Rehabilitate North Pines CG, Replace 1 Segment Under River, 1 Spot Repair, Line 2 Segments, Clean and Re-inspect 1 Segment, 2 New Manholes
3	27,0				X	×	X	×	х	Immediate	Rehabilitate Yosemite Lodge Line Work, 2 Spot Repair, Line 2 Segments, Replace 1 Taps, Grease Management 1 Segments, Clean and Re-inspect 3 Segments

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	Project Number			Reha	bilitat	ion C	ode ^(a)))(CIP Priority Level	
Rating		RP	NM		IP	SR		GM	М		Project Description
3	28.0	х	Х			X		х		Immediate	J Line Capacity Increase: Pipe Burst from N12 to J2 with 8"ID Pipe, Replace 3 Manholes, 1 Spot Repair, Grease Management 2 Segments
3	29.0	x	X	×	Х					Immediate	Lower River Force Main, Pipe Burst SSMH(1) to F5 with 10"ID, Root Removal and Line Force Main, 1 New Manhole
3	30.0	X	×		X	X				Immediate	H Line Capacity Increase and Rehabilitation: Pipe Burst from H22 to H1 with 8*ID Pipe, Replace 3 Manholes, Line 4 Segments, 6 Spot Repairs
3	31,0			X	Х	×				Immediate	Rehabilitate N3 to C2, Root Removal and Line 1 Segments, 1 Spot Repair
3	32.0	X		x	Х	х				Immediate	Rehabilitate Yosemite Village West Line Work , Pipe Burst 2 Segments, Root Removal and Line 4 Segments, 9 Spot Repairs, 2 New Manholes
3	33.0	Х				X				Immediate	Rehabilitate K Line , Pipe Burst 2 Segments, 4 Spot Repairs, 2 New Manholes
3	34.0					X				Immediate	Rehabilitate F131 to F132 Line, 3 Spot Repairs
3	35.0				Х	Х	х			Immediate	Rehabilitate Upper Lower Pines and Happy Isles , Line 7 Segments, 2 Spot Repairs, Replace 2 Taps
2	36.0	×	×							Immediate	N Line Capacity Increase: Pipe Burst from N17 to N19 with 15"ID Pipe, Replace 2 Manholes

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	Project Number			Reha	bilitat	ion C	ode ^(a)	Υ.			
Rating		RP	NM	RR	IP	SR	RT	GM	M	CIP Priority Level	Project Description
2	37.0	х	х							Intermediate	Yosemite Lodge Trunk Line to YCLS Capacity Increase: Pipe Burst from MH12 to MH32A with 15"ID Pipe, Replace 2 Manholes
2	38.0	X	х							Intermediate	F Line Capacity Increase: Pipe Burst from F22 to F20 with 6"ID Pipe, Replace 2 Manholes
2	39.0	×	х							Intermediate	Capacity Increase: Pipe Burst from MH19A to MHD1A with 8"ID Pipe, Replace 2 Manholes
2	40.0									Intermediate	Install Permanent Flow Monitoring Equipment at 2 Lift Stations and 7 Flow Monitoring Locations
2	41.0								×	Intermediate	System Wide Cleaning and CCTV Inspection
1	42.0	X	x	×	X	×	×	×		Long-Term	Expected Results from CCTV Inspection, Replace 930 ft; 15 New Manholes; 5,300 ft Root Removal; Line 3,100 ft; 20 Spot Repairs; Replace 20 Taps; Grease Management 10 segments approximately 3000 ft

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